

MATERIAL SAFETY DATA SHEET

• Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.		EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047		
CHEMICAL NAME AND SYNONYMS Cooling water Microbicide	EPA Reg. No. 4643-40	TRADE NAME OR CODE IDENT. DEARCIDE® 702

• Section 2 – INGREDIENTS

	CAS No.	%	EXPOSURE CRITERIA
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4)	1.15	TWA: 0.1 mg/m ³ (total)
2-Methyl-4-isothiazolin-3-one	2682-20-4)	0.35	

NFPA: 3-0-0

• Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg approx.	212°F.	MELTING POINT	N/A
SPECIFIC GRAVITY (H ₂ O = 1)	1.01	VAPOR PRESSURE @ 25°C. approx.	17 mmHg est.
VAPOR DENSITY (AIR = 1)	0.6 est.	SOLUBILITY IN H ₂ O, % BY WT.	complete
% VOLATILES BY VOLUME By weight	94	EVAPORATION RATE, Butyl acetate =	1 less than 1
APPEARANCE AND ODOR Pale amber to green liquid Mild aromatic odor	pH	approx.	4.0

• Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER N/A UPPER	AUTO IGNITION TEMPERATURE N/A
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EXTINGUISHING MEDIA	<input type="checkbox"/> Water Fog	<input type="checkbox"/> Foam	<input type="checkbox"/> CO ₂	<input type="checkbox"/> Dry Chemical	<input type="checkbox"/> Other
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SPECIAL FIRE FIGHTING PROCEDURES If material is involved in a fire, use approved self-contained breathing apparatus. Use water spray to cool exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARD Toxic combustion products include sulfur dioxide and hydrogen chloride.

• Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID To avoid evaporation to dryness in shipping container, triple rinse drum with water, adding rinsate to treated system per EPA container handling instructions for all FIFRA regulated product
INCOMPATIBILITY (Materials to Avoid) Do not allow concentrated product to boil.	

HAZARDOUS DECOMPOSITION PRODUCTS

HCl and oxides of sulfur.

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID None
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(over)

• Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT Maximum time weighted average (TWA) for 5-chloro-2-methyl-4-isothiazolin-3-one is 0.5 mg/m³ as mist or aerosol. Human skin sensitization is induced in 1/18 subjects @ 25 active ingredient. More than 0.5% (5000 ppm) active solns are strongly irritating to human tissue.

EFFECTS OF OVEREXPOSURE

INHALATION Avoid prolonged inhalation of fumes and mist. May cause irritation of mucous membranes of nose and throat. Remove to fresh air.

INGESTION Do NOT take internally. Do NOT induce vomiting. Drink a large quantity of milk, egg white, gelatin solution or if these are unavailable, drink large quantities of water. **AVOID ALCOHOL.** Call physician immediately. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be necessary.

SKIN OR EYE CONTACT Prevent direct skin or eye contact. Direct contact with skin will cause severe irritation and burns. Material is a skin sensitizer at even low concentration (see above). Wash skin with soap and water. **NOTE TO PHYSICIAN:** Use of sterile dressings over a bland bacteriostatic ointment for 4-5 days is suggested initially. If dermatitis reaction occurs, use wet soaks 3 or 4 times daily followed by corticosteroid ointment. For severe allergic reactions, use of an oral corticosteroid such as prednisone may be considered for 6-7 days with decreasing dosages.

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Contact will cause severe irritation and corneal damage. If contacted, flush eyes immediately with large amounts of water for 15 minutes. Contact a physician at once. Use of antibiotic ointment may be indicated.

Skin contact: TREAT IMMEDIATELY AS A SEVERE THERMAL BURN.

Remove contaminated clothing, launder before reuse.

• Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical exhaust is adequate for product in normal use.

RESPIRATORY PROTECTION (Specify Type)

Wear MESA/NIOSH approved respirator suitable for mist or high vapor concentrations as may be encountered in large spill.

EYE PROTECTION Wear splash-proof goggles and face shield (ANSI Z87.1, 1979)

GLOVES (Specify Type)

Impervious gloves

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

Impervious protective apron, eyewash facilities, emergency shower in vicinity of use.

• Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Use industrial absorbent and transfer to suitable container for disposal using authorized chemical scavenger service. Flush area with water using suitable dike as required to control run-off.

WASTE DISPOSAL METHOD Product can be deactivated in about 30 minutes using about (10-12% active sodium bisulfite solutions (Dearborn 62 1:3 in water). Use at least 4 equivalents of decontaminating solution. A volume ratio of 20:1 decontaminant: active microbicide is recommended. Product is an EPA Hazardous Waste. The degraded product is not an EPA Hazardous Waste.

• Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Store in ventilated area. Freeze point, 32°F. If frozen, agitate when thawed to mix.

OTHER PRECAUTIONS Triple rinse empty containers into system using the product and dispose of containers per EPA-DOT regulations referred to in Dearborn Technical Bulletin 51-104

Shipping Name: DOT Corrosive Liquid, n.o.s. Corrosive UN 1760

IATA

Prepared By W. M. Morris

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